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1 Query evaluation techniques for large databases
Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: 📄 pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

2 Proxy-based acceleration of dynamically generated content on the world wide web: An approach and implementation
Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, Krithi Ramamritham
June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2

Full text available: 📄 pdf(927.23 KB)   Additional Information: full citation, abstract, references, index terms

As Internet traffic continues to grow and websites become increasingly complex, performance and scalability are major issues for websites. Websites are increasingly relying on dynamic content generation applications to provide website visitors with dynamic, interactive, and personalized experiences. However, dynamic content generation comes at a cost---each request requires computation as well as communication across multiple components.To address these issues, various dynamic content caching ap ...

Keywords: Edge caching, caching dynamically generated content, fragment caching, implementation, proxy caching, world wide web

3 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings f the 1997 c nference f the Centre for Advanced Studies on Collab rative research**

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld
December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4
Full text available: pdf(351.86 KB)   Additional Information: full citation, abstract, index terms

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

5 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker
December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1
Full text available: pdf(7.24 MB)   Additional Information: full citation, citings

6 Using LDAP directory caches

Sophie Cluet, Olga Kapitskaia, Divesh Srivastava
May 1999 **Proceedings of the eighteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**
Full text available: pdf(1.32 MB)   Additional Information: full citation, references, citings, index terms

7 Research sessions: distributed systems: Proxy-based acceleration of dynamically generated content on the world wide web: an approach and implementation

Anindya Datta, Kaushik Dutta, Helen Thomas, Debra VanderMeer, Suresha, Krithi Ramamritham
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**
Full text available: pdf(1.37 MB)   Additional Information: full citation, abstract, references, citings, index terms

As Internet traffic continues to grow and web sites become increasingly complex, performance and scalability are major issues for web sites. Web sites are increasingly relying on dynamic content generation applications to provide web site visitors with dynamic, interactive, and personalized experiences. However, dynamic content generation comes at a cost --- each request requires computation as well as communication across multiple components.To address these issues, various dynamic content cach ...

Keyw rds: dynamic content, edge caching, proxy-based caching

8 The berkeley UNIX consultant project

Robert Wilensky, David N. Chin, Marc Luria, James Martin, James Mayfield, Dekai Wu
December 1988 **C mputati nal Linguistics**, Volume 14 Issue 4
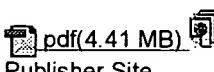
Full text available: pdf(4.41 MB)   Additional Information: full citation, abstract, references, citings
Publisher Site

UC (UNIX Consultant) is an intelligent, natural language interface that allows naive users to learn about the UNIX[2] operating system. UC was undertaken because the task was thought to be both a fertile domain for artificial intelligence (AI) research and a useful application of AI work in planning, reasoning, natural language processing, and knowledge representation.The current implementation of UC comprises the following components: a language analyzer, called ALANA, produces a repre ...

9 Spoken dialogue technology: enabling the conversational user interface

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1
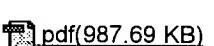
Full text available: pdf(987.69 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

10 The envoy framework: an open architecture for agents

Murugappan Palaniappan, Nicole Yankelovich, George Fitzmaurice, Anne Loomis, Bernard Haan, James Coombs, Norman Meyrowitz
July 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 3
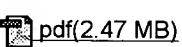
Full text available: pdf(2.47 MB)   Additional Information: full citation, abstract, references, citings, index terms

The Envoy Framework addresses a need for computer-based assistants or agents that operate in conjunction with users' existing applications, helping them perform tedious, repetitive, or time-consuming tasks more easily and efficiently. Envoys carry out missions for users by invoking envoy-aware applications called operatives and inform users of mission results via envoy-aware applications called informers. The distributed, open architecture developed for Envoys is derived from an analysis of ...

Keywords: application programmer interface, user agent

11 The Purdue University network-computing hubs: running unmodified simulation tools via the WWW

Nirav H. Kapadia, José A. B. Fortes, Mark S. Lundstrom
January 2000 **ACM Transacti ns n Modeling and Computer Simulati n (TOMACS)**,
Volume 10 Issue 1
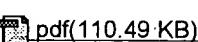
Full text available: pdf(110.49 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes the Web interface management infrastructure of a functioning network-computing system (PUNCH) that allows users to run unmodified simulation packages at

geographically dispersed sites. The system currently contains more than fifty university and commercial simulation tools, and has been used to carry out more than two hundred thousand simulations via the World Wide Web. Dynamically-constructed virtual URLs allow the Web interface management infrastructure to support the ...

Keyw rds: Internet computing, network-computing, web-based simulation

12 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo

July 2001   **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 23 Issue 4

Full text available: pdf(1.95 MB)   Additional Information: full citation, abstract, references, citings, index terms

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

13 External memory algorithms and data structures: dealing with

massive data

Jeffrey Scott Vitter

June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2

Full text available: pdf(828.46 KB)   Additional Information: full citation, abstract, references, citings, index terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

14 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB)
                     html(2.78 KB)   Additional Information: full citation, references, citings, index terms

15 Investigating link service infrastructures

David C. De Roure, Nigel G. Walker, Leslie A. Carr

May 2000 **Pr ceedings f the eleventh ACM n Hypertext and hypermedia**

Full text available: pdf(133.87 KB)   Additional Information: full citation, references, citings, index terms

Keyw rds: LDAP, Whois++, directory services, distributed link service, link service, open hypermedia, query routing

16 Form management
D. Tsichritzis
July 1982 **C mmunicati ns f the ACM**, Volume 25 Issue 7

Full text available: pdf(2.78 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper consists of three interrelated parts. In the first part forms are intoduced as an abstraction and generalization of business paper forms. A set of facilities for the manipulation of forms and their contents is outlined. Forms can be created, stored, found, viewed in different media, mailed, and located by office workers. Data on forms can also be processed in a completely integrated way. The facilities are discussed both abstractly and in relation to a prototype ...

Keywords: database management, office modeling, office procedures

17 Applying an information gathering architecture to Netfind: a white pages tool for a changing and growing Internet
Michael F. Schwartz, Calton Pu
October 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 5

Full text available: pdf(1.71 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

18 Nomenclator descriptive query optimization for large X.500 environments
Joann J. Ordille, Barton P. Miller
August 1991 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols**, Volume 21 Issue 4

Full text available: pdf(1.26 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

19 Technical Session: Supporting ubiquitous computing through directory enabled technologies
Michael Richichi, Paul Coen
October 2001 **Proceedings of the 29th annual ACM SIGUCCS conference on User services**

Full text available: pdf(285.27 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Drew has been providing computers to students since 1984. Many universities have ubiquitous computing programs where students receive a laptop computer as part of their educational package. These programs reduce the dependence on and management issues of traditional computer labs, and allow 24x7 computing access to every student at the University. Drew also provides Novell Directory Services (NDS) accounts to all of these students, and utilizes Novell ZENworks to customize software, personalize ...

Keywords: LDAP, ZENworks, directory services, eDirectory, laptop programs, management, ubiquitous computing

20 Interactive Editing Systems: Part II
Norman Meyrowitz, Andries van Dam
September 1982 **ACM C mputing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: ▨ pdf(9.17 MB)   Additional Information: full citation, references, citings, index terms

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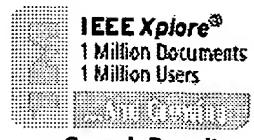
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Term: ldap and (corrielus)

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DATE: **Monday, January 03, 2005**   Printable Copy   Create Case

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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
L36 ldap and (corrielus)	9	L36
L35 ldap and (query near template)	7	L35
L34 L33 and (query near template)	5	L34
L33 ldap near directory	794	L33
L32 (network near directory) and (query near template)	2	L32
L31 L30 and (query near template)	2	L31
L30 (network near directory) and template	225	L30
L29 (network near directory near cache) and template	3	L29
DB=USPT; PLUR=YES; OP=OR		
L28 (network near directory near cache) and template	1	L28
L27 (network near directory near cache)	4	L27
L26 (network near directory)	631	L26
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
L25 L24 and ldap	4	L25
L24 L23 and cache	22	L24
L23 L18 and entries	57	L23
L22 L18 and (directory near entries)	3	L22
L21 L18 and directory	29	L21

L20	L18 and diretory	0	L20
L19	L18 and diretories	0	L19
L18	(user near queries) and (query near template)	78	L18
L17	queries same (query near template)	203	L17
L16	L14 and cache	0	L16
L15	L14 and directory	0	L15
L14	(create near(query near template))	2	L14
L13	L11 and ((query near template))	4	L13
L12	L11 and ((creat$ or generat$) near (query near template))	2	L12
L11	(cache near directory)	2299	L11
L10	L9 and (cache near directory)	2	L10
L9	L8 and (stor$ near (query or queries))	21	L9
L8	(query near template) and (directory or directories)	53	L8
L7	(creat$ near query near template) and (directory or directories)	3	L7
L6	(creat$ near query near template)	5	L6
L5	(stor$ near quer$) and (creat$ near query near template)	1	L5
L4	L3 and (cach$ near director$)	0	L4

DB=USPT; PLUR=YES; OP=OR

L3	(candidate near template)	139	L3
L2	L1 and (candidate near template)	0	L2
L1	((creat$ or generat$) near template$) and (stor$ near quer$)	37	L1

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☐ 1. Document ID: US 20040243576 A1

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L35: Entry 1 of 7                          File: PGPB                Dec 2, 2004


PGPUB-DOCUMENT-NUMBER: 20040243576
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040243576 A1


TITLE: System and method for querying data for implicit hierarchies


PUBLICATION-DATE: December 2, 2004


INVENTOR-INFORMATION:
NAME                           CITY        STATE     COUNTRY      RULE-47
Shrivastava, Saurabh           Fremont     CA        US
Srinivasan, Uppili             Fremont     CA        US


US-CL-CURRENT: 707/5
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 2. Document ID: US 20040230572 A1

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L35: Entry 2 of 7                          File: PGPB                Nov 18, 2004


PGPUB-DOCUMENT-NUMBER: 20040230572
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040230572 A1


TITLE: System and method for semantic knowledge retrieval, management, capture, sharing,
discovery, delivery and presentation


PUBLICATION-DATE: November 18, 2004


INVENTOR-INFORMATION:
NAME                           CITY        STATE     COUNTRY      RULE-47
Omoigui, Nosa                  Redmond     WA        US


US-CL-CURRENT: 707/3
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 3. Document ID: US 20040059719 A1

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L35: Entry 3 of 7                          File: PGPB                Mar 25, 2004
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PGPUB-DOCUMENT-NUMBER: 20040059719
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040059719 A1

TITLE: Methods, computer programs and apparatus for caching directory queries

PUBLICATION-DATE: March 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gupta, Rajeev	New Delhi		IN	
Kumar, Apurva	New Delhi		IN	

US-CL-CURRENT: 707/3

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 4. Document ID: US 20040024764 A1
L35: Entry 4 of 7   File: PGPB   Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040024764
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040024764 A1

TITLE: Assignment and management of authentication & authorization

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hsu, Jack	Tempe	AZ	US	
Skipp, Derwin	Tempe	AZ	US	

US-CL-CURRENT: 707/9

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 5. Document ID: US 20030126136 A1
L35: Entry 5 of 7   File: PGPB   Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030126136
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030126136 A1

TITLE: System and method for knowledge retrieval, management, delivery and presentation

PUBLICATION-DATE: July 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47

Omoigui, Nosa   Redmond   .   WA   US

US-CL-CURRENT: 707/10

`Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image`

☐ 6.   Document ID: US 20030097355 A1

L35: Entry 6 of 7   File: PGPB   May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030097355
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030097355 A1

TITLE: Method for using query templates in directory caches

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kapitskaia, Olga	Paris	NJ	FR	
Ng, Raymond	Vancouver		CA	
Srivastava, Divesh	Summit		US	

US-CL-CURRENT: 707/3; 707/10, 709/213

`Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image`

☐ 7.   Document ID: US 20030014483 A1

L35: Entry 7 of 7   File: PGPB   Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030014483
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030014483 A1

TITLE: Dynamic networked content distribution

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stevenson, Daniel C.	Cambridge	MA	US	
Zotter, Brian	Saint James	NY	US	
Edmondston, Stuart John	Boston	MA	US	
Ferrara, Edward Joseph	Massapequa Park	NY	US	

US-CL-CURRENT: 709/203; 709/246

`Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image`

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Term	Documents
LDAP	3053
LDAPS	7
QUERY	66279
QUERIES	37595
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TEMPLATE	123544
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(LDAP AND (QUERY NEAR TEMPLATE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	7

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☐ 1. Document ID: US 20040230572 A1

Using default format because multiple data bases are involved.

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L25: Entry 1 of 4                        File: PGPB            Nov 18, 2004


PGPUB-DOCUMENT-NUMBER: 20040230572
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040230572 A1


TITLE: System and method for semantic knowledge retrieval, management, capture, sharing,
discovery, delivery and presentation


PUBLICATION-DATE: November 18, 2004


INVENTOR-INFORMATION:
NAME                         CITY          STATE       COUNTRY          RULE-47
Omoigui, Nosa                Redmond       WA          US


US-CL-CURRENT: 707/3
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 2. Document ID: US 20040059719 A1

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L25: Entry 2 of 4                        File: PGPB            Mar 25, 2004


PGPUB-DOCUMENT-NUMBER: 20040059719
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040059719 A1


TITLE: Methods, computer programs and apparatus for caching directory queries


PUBLICATION-DATE: March 25, 2004


INVENTOR-INFORMATION:
NAME                         CITY          STATE       COUNTRY          RULE-47
Gupta, Rajeev                New Delhi                 IN
Kumar, Apurva                New Delhi                 IN


US-CL-CURRENT: 707/3
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 3. Document ID: US 20030126136 A1

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L25: Entry 3 of 4                        File: PGPB            Jul 3, 2003
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PGPUB-DOCUMENT-NUMBER: 20030126136
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030126136 A1

TITLE: System and method for knowledge retrieval, management, delivery and presentation

PUBLICATION-DATE: July 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Omoigui, Nosa	Redmond	WA	US	

US-CL-CURRENT: 707/10

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 4. Document ID: US 20030097355 A1

L25: Entry 4 of 4   File: PGPB   May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030097355
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030097355 A1

TITLE: Method for using query templates in directory caches

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kapitskaia, Olga	Paris	NJ	FR	
Ng, Raymond	Vancouver		CA	
Srivastava, Divesh	Summit		US	

US-CL-CURRENT: 707/3; 707/10, 709/213

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Term	Documents
LDAP	3053
LDAPS	7
(24 AND LDAP).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4
(L24 AND LDAP).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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☐ 1. Document ID: US 6760812 B1

L28: Entry 1 of 1   File: USPT   Jul 6, 2004

US-PAT-NO: 6760812
DOCUMENT-IDENTIFIER: US 6760812 B1

TITLE: System and method for coordinating state between networked caches

DATE-ISSUED: July 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Degenaro; Louis R.	White Plains	NY		
Iyengar; Arun K.	Yorktown Heights	NY		
Rouvellou; Isabelle M.	New York	NY		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
International Business Machines Corporation	Armonk	NY			02

APPL-NO: 09/ 684179   [PALM]
DATE FILED: October 5, 2000

INT-CL: [07] G06 F 12/00

US-CL-ISSUED: 711/133; 711/119, 711/136, 711/137, 711/141
US-CL-CURRENT: 711/133; 711/119, 711/136, 711/137, 711/141

FIELD-OF-SEARCH: 711/119, 711/130, 711/133, 711/136, 711/137, 711/141

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5590308	December 1996	Shih	711/136
6519685	February 2003	Chang	711/141

ART-UNIT: 2187

PRIMARY-EXAMINER: Sparks; Donald

ASSISTANT-EXAMINER: Truong; Bao Q

ATTY-AGENT-FIRM: F. Chau & Associates, LLC

ABSTRACT:

A system and method are provided for sharing and caching information in a data processing system and for efficiently managing a cacheable state shared among processes and clones. In one aspect, a method for managing a plurality of caches distributed in a network comprises maintaining, by each cache, a plurality of statistics associated with a cacheable object, wherein the statistics associated with the cacheable object comprise an access frequency ($A(o)$), an update frequency ($U(o)$); an update cost ($C(o)$), and a cost to fetch the cacheable object from remote source ($F(o)$); computing, by each cache, a metric using said statistics, wherein the metric quantitatively assesses the desirability of caching the cacheable object; and utilizing the metric, by each cache, to make caching decisions associated with the cacheable object.

24 Claims, 11 Drawing figures

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

| Clear | | Generate Collection | | Print | | Fwd Refs | | Bkwd Refs | | Generate OACS |

Term	Documents
NETWORK	286436
NETWORKS	113165
DIRECTORY	23458
DIRECTORIES	6983
DIRECTORYS	4
CACHE	31865
CACHES	8918
TEMPLATE	50527
TEMPLATES	21320
((DIRECTORY NEAR NETWORK NEAR CACHE) AND TEMPLATE).USPT.	1
((NETWORK NEAR DIRECTORY NEAR CACHE) AND TEMPLATE).USPT.	1

Display Format: FRO   Change Format

Previous Page   Next Page   Go to Doc#

L29	(network near directory near cache) and template	3	L29

DB=USPT; PLUR=YES; OP=OR

L28	(network near directory near cache) and template	1	L28
L27	(network near directory near cache)	4	L27
L26	(network near directory)	631	L26

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

L25	L24 and ldap	4	L25
L24	L23 and cache	22	L24
L23	L18 and entries	57	L23
L22	L18 and (directory near entries)	3	L22
L21	L18 and directory	29	L21
L20	L18 and diretory	0	L20
L19	L18 and diretories	0	L19
L18	(user near queries) and (query near template)	78	L18
L17	queries same (query near template)	203	L17
L16	L14 and cache	0	L16
L15	L14 and directory	0	L15
L14	(create near(query near template))	2	L14
L13	L11 and ((query near template))	4	L13
L12	L11 and ((creat$ or generat$) near (query near template))	2	L12
L11	(cache near directory)	2299	L11
L10	L9 and (cache near directory)	2	L10
L9	L8 and (stor$ near (query or queries))	21	L9
L8	(query near template) and (directory or directories)	53	L8
L7	(creat$ near query near template) and (directory or directories)	3	L7
L6	(creat$ near query near template)	5	L6
L5	(stor$ near quer$) and (creat$ near query near template)	1	L5
L4	L3 and (cach$ near director$)	0	L4

DB=USPT; PLUR=YES; OP=OR

L3	(candidate near template)	139	L3
L2	L1 and (candidate near template)	0	L2
L1	((creat$ or generat$) near template$) and (stor$ near quer$)	37	L1

END OF SEARCH HISTORY

☐ ▓▓Generate Collection▓▓ | Print |

L28: Entry 1 of 1   File: USPT   Jul 6, 2004

DOCUMENT-IDENTIFIER: US 6760812 B1
TITLE: System and method for coordinating state between networked caches

Brief Summary Text (7):
A "model" is a template for creating additional, nearly identical copies of a server or process
instance, such as an application server or servlet engine. Such copies are called "clones". The
act of creating clones is called cloning. A clone (or cloned process) is a special case of a
process. Such processes and clones comprise many computer systems. Cloning allows multiple
copies of the same object to behave together as if they were a single image, with the idea that
clients experience improved performance. More specifically, processes and clones often perform
particular tasks and communicate with other process and clones performing the same or other
tasks. There are various benefits associated with having separate processes and clones perform
individual tasks, including but not limited to reusability, understandability, and efficiency.

Detailed Description Text (42):
Next, cache retrieve requests (steps 530 and 540) are performed by the network cache manager to
gather information necessary to initialize the local directory of the network cache manager.
Typically, such requests are made to one or possibly more peer network cache managers, if any.
If no other network cache manager is active, then no requests are made. The node, object, and
dependency information that is returned to the network cache manager by the peer network cache
manager(s) is placed appropriately into the associated network cache manager directory. This
locally maintained information allows the network cache manager to independently determine
where to send invalidation notifications and where particular cached objects exist.

☑ ▓▓▓▓ Generate Collection ▓▓▓▓   Print

L6: Entry 3 of 5   File: USPT   Dec 16, 2003

DOCUMENT-IDENTIFIER: US 6665658 B1
TITLE: System and method for automatically gathering dynamic content and resources on the world
wide web by stimulating user interaction and managing session information

Detailed Description Text (21):
Referring to FIG. 2, the process of the present invention may be implemented as follows:
Session manager 14 retrieves a URL (100) from the URL site list 30. Session manager 14 then
retrieves the DTD information (102) for the retrieved URL from the Site Information database
10, which is also passed to the Query Template Builder 16. Session manager 14 then passes the
retrieved URL and DTD information to the Query Template Builder 16. Query Template Builder 16
creates a query template (104) for the retrieved URL using the DTD information and passes the
partial query template to the Query Template Manager 18. Query Manager 18 retrieves the topic
to be searched (106) from the Search Topics database 12 and inserts the topic into the query
template (108), which completes the query string. The fully completed query string is then
passed to the Requester 20, which performs a HTTP request (110) to the URL site 24. Requester
20 receives the results of the query from the URL site and passes the results (112) to the
Search Results Manager 22. Typically, the results of a search will contain more than one
result, and many times more than one page of results. Search Results Manager 22 knows from the
DTD the page structure/schemata and is able to perform page navigation. If there is more than
one page of results, the Search Results Manager 22 is capable of instructing the Requester to
retrieve any additional pages of results (114) and can forward the query string back to the
Requester 20. This cycle is continued until all of the results of the search are retrieved and
the Search Results Manger has all of the search results. The retrieved search results or data
are then passed to the Results Manager 26 for processing. Results Manager 26 can determine if
there are additional topics to be searched (116) and Query Manager 18 can send additional query
search strings to Requester 20 for further searches. This cycle of events is continued until
all search topics have been searched. For example, a search of the site "AMAZON.COM" may
include searching 15 different topics, in that site. After each search, Query Manager 26 can
determine from the DTD that there are additional topics to be searched. It can cause additional
search topic(s) to be retrieved from the Search Topics database 12 and cause a new search
string to be created for each search topic. In this fashion, Query Manager 18 can cause 15
different query strings to be created, each of which will produce a different set of search
results. The search results are processed (118) by Results Manager 26, and may include
notifying the Query Manger 18 that the search cycle is complete and that another search may
proceed (120). Result Manager 26 may also store the search results, in for example, a data
repository 28, and can also associate the search data with the DTD information and search topic
categories. Results Manager 26 may also be able to extract, analyze or summarize the search
results and data.

CLAIMS:

1. An automated method of gathering dynamic content and resources on the world wide web by
simulating user interaction and managing session information, the method comprising the steps
of: providing a site database of dynamic websites requiring interaction to download contents
thereof, said site database containing session data for the dynamic websites and document type
definitions ("DTD") including descriptions of how to interact with the dynamic websites;
identifying and retrieving at least one uniform resource locator ("URL") for a dynamic website
to be analyzed; identifying and retrieving a session data and DTD for said URL from the site
database; creating a query template for the retrieved URL using said identified DTD describing
how to interact with the URL to simulate user interaction; identifying at least one search
topic to be searched on said URL; inserting said at least one search topic into said query
template to form a search query string querying said URL with said query string comprising said
identified DTD and said at least one search topic; retrieving at least one result of said

query, thereby automatically simulating user interaction with said dynamic website to gather and extract said at least one result.

5. An article of manufacture comprising: a site database of dynamic websites requiring interaction to download contents thereof, said site database containing session data for the dynamic websites and document type definitions ("DTD") including descriptions of how to interact with the dynamic websites; and a computer usable medium having computer readable program code means for automatically gathering dynamic content and resources on the world wide web by simulating user interaction and managing session information, the computer readable program code means in said article of manufacture comprising: computer readable program code means to identify and retrieve a URL for a dynamic website to be queried; computer readable program code means to identify and retrieve a session data and DTD for said URL from the site database; computer readable program code means to create a query template for the retrieved URL using said identified DTD describing how to interact with the URL to simulate user interaction; computer readable program code means to identify at least one search topic to be searched on said URL; computer readable program code means to insert said at least one search topic into said query template to form a search query string; computer readable program code means to query said URL with said query string comprising said identified DTD and said at least one search topic; computer readable program code means to retrieve at least one result of said query, thereby automatically simulating user interaction with said dynamic website to gather and extract said at least one result.

9. A computer program product comprising: a site database of dynamic websites requiring interaction to download contents thereof, said site database containing session data for the dynamic websites and document type definitions ("DTD") including descriptions of how to interact with the dynamic websites; and a computer usable medium having computer readable program code means embodied in said medium for automatically gathering dynamic content and resources on the world wide web by simulating user interaction and managing session information, said computer program product having: computer readable program code means for causing a computer to identify and retrieve a URL for a dynamic website to be queried; computer readable program code means for causing a computer to identify and retrieve a session data and DTD for said URL from the site database; computer readable program code means to create a query template for the retrieved URL using said identified DTD describing how to interact with the URL to simulate user interaction; computer readable program code means for causing a computer to identify at least one search topic to be searched on said URL; computer readable program code means to insert said at least one search topic into said query template to form a search query string; computer readable program code means for causing a computer to query said URL with said query string comprising said identified DTD and said at least one search topic; computer readable program code means for causing a computer to retrieve at least one result of said query, thereby automatically simulating user interaction with said dynamic website to gather and extract said at least one result.

13. A computer program product for automatically gathering dynamic content and resources on the world wide web, said computer program product comprising: a site database of dynamic websites requiring interaction to download contents thereof, said site database containing session data for the dynamic websites and document type definitions including descriptions of how to interact with the dynamic websites; and a computer usable medium having computer readable program code means embodied in said medium for causing a computer to simulate user interaction and managing session information with a website, said computer program product having: computer readable program code means for causing a computer to determine at least one dynamic website to be searched, said website having a uniform resource locator; computer readable program code means for causing a computer to determine a session data and document type definition, from the site database, for said at least one dynamic website to be searched; computer readable program code means for causing a computer to create a query template for a website to simulate user interaction, said query template containing said uniform resource locator and said document type definition describing how to interact with the uniform resource locator; computer readable program code means for causing a computer to determine at least one search topic to be searched on said website; computer readable program code means for causing a computer to insert said topic into said query template to form a search query string; computer readable program code means for causing a computer to query said website with said query string; computer readable program code means for causing a computer to receive at least one result from said query; computer readable program code means for causing a computer to determine if there is a second search topic to be searched on said website; computer readable program code means for causing a

computer to create a second search query string containing said uniform resource locator and said document type definition for said website and said second topic to be searched; computer readable program code means for causing a computer to execute a second query of said website with said second search query string; computer readable program code means for causing a computer to receive at least one result from said second query; computer readable program code means for causing a computer to execute a plurality of queries for a plurality of search topics to be searched on said website,

thereby automatically simulating user interaction with said website to gather and extract results from said website.

Collections
Definition, Editing, Browsing

Name: Undefined

Contents:

6665658

Comment:

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

| Save | Save As | Reset | Quit |

| Print | Search | Get Images | Classification Info |

| Collection Directory |

Hit List

Your wildcard search against 10000 terms has yielded the results below.
Your result set for the last L# is incomplete.
The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20030097355 A1

Using default format because multiple data bases are involved.

| L12: Entry 1 of 2 | File: PGPB | May 22, 2003 |

PGPUB-DOCUMENT-NUMBER: 20030097355
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030097355 A1

TITLE: Method for using query templates in directory caches

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kapitskaia, Olga	Paris	NJ	FR	
Ng, Raymond	Vancouver		CA	
Srivastava, Divesh	Summit		US	

US-CL-CURRENT: 707/3; 707/10, 709/213

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 2. Document ID: US 20030097355 A1

| L12: Entry 2 of 2 | File: DWPI | May 22, 2003 |

DERWENT-ACC-NO: 2003-597390
DERWENT-WEEK: 200356
COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Network directory cache managing method, involves storing number of user queries, creating query template, and retrieving and storing directory entries answering query template in cache

INVENTOR: KAPITSKAIA, O; NG, R ; SRIVASTAVA, D

PRIORITY-DATA:

Hit List

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20030097355 A1

Using default format because multiple data bases are involved.
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    L31: Entry 1 of 2                        File: PGPB              May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030097355
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030097355 A1


TITLE: Method for using query templates in directory caches

PUBLICATION-DATE: May 22, 2003


INVENTOR-INFORMATION:
NAME                         CITY          STATE     COUNTRY        RULE-47
Kapitskaia, Olga             Paris         NJ        FR
Ng, Raymond                  Vancouver               CA
Srivastava, Divesh           Summit                  US


US-CL-CURRENT: 707/3; 707/10, 709/213
```

☐ 2. Document ID: US 20030097355 A1
```
    L31: Entry 2 of 2                        File: DWPI             May 22, 2003

DERWENT-ACC-NO: 2003-597390
DERWENT-WEEK: 200356
COPYRIGHT 2005 DERWENT INFORMATION LTD


TITLE: Network directory cache managing method, involves storing number of user queries,
creating query template, and retrieving and storing directory entries answering query template
in cache

INVENTOR: KAPITSKAIA, O; NG, R ; SRIVASTAVA, D

PRIORITY-DATA: 2000US-199541P (April 25, 2000), 2001US-0841834 (April 25, 2001)

PATENT-FAMILY:
PUB-NO                       PUB-DATE           LANGUAGE      PAGES      MAIN-IPC
US 20030097355 A1            May 22, 2003                     010        G06F015/167


INT-CL (IPC): G06 F 7/00; G06 F 15/167; G06 F 17/30

ABSTRACTED-PUB-NO: US20030097355A
BASIC-ABSTRACT:
```

NOVELTY - The method involves receiving and storing a number of user queries and creating a query template that generalizes the user queries. Directory entries answering the query template are retrieved so that the directory entries are stored in the cache. The directory entries are retrieved after estimating the benefits of storing the directory entries in the cache.

USE - Used for managing network directory cache.

ADVANTAGE - The cache effectiveness is improved by maintaining a set of generalization of queries and admitting such generalizations into cache when their estimated benefits are sufficiently held.

DESCRIPTION OF DRAWING(S) - The drawing shows a flow chart of processing that is performed by the client in creating query templates.

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Clip Img | Ims |

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
QUERY	66279
QUERIES	37595
QUERYS	43
TEMPLATE	123544
TEMPLATES	49583
(30 AND (QUERY NEAR TEMPLATE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2
(L30 AND (QUERY NEAR TEMPLATE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

Display Format: |- _____ | Change Format

Previous Page   Next Page   Go to Doc#

Refine Search

Search Results -

Term	Documents
NETWORK	923241
NETWORKS	265842
DIRECTORY	57747
DIRECTORIES	15448
DIRECTORYS	4
QUERY	66279
QUERIES	37595
QUERYS	43
TEMPLATE	123544
TEMPLATES	49583
((DIRECTORY NEAR NETWORK) AND (QUERY NEAR TEMPLATE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2
((NETWORK NEAR DIRECTORY) AND (QUERY NEAR TEMPLATE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L32

[Refine Search]

[Recall Text ◆]   [Clear]   [Interrupt]

Search History

DATE: Monday, January 03, 2005   Printable Copy   Create Case

Set Name Query	Hit Count	Set Name
side by side		result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

Set Name	Query	Hit Count	Set Name
L32	(network near directory) and (query near template)	2	L32
L31	L30 and (query near template)	2	L31
L30	(network near directory) and template	225	L30

Hit List

Search Results - Record(s) 1 through 3 of 3 returned.

□ 1. Document ID: US 20040059719 A1

Using default format because multiple data bases are involved.

L22: Entry 1 of 3   File: PGPB   Mar 25, 2004

```
PGPUB-DOCUMENT-NUMBER: 20040059719
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040059719 A1
```

TITLE: Methods, computer programs and apparatus for caching directory queries

PUBLICATION-DATE: March 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gupta, Rajeev	New Delhi		IN	
Kumar, Apurva	New Delhi		IN	

US-CL-CURRENT: 707/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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□ 2. Document ID: US 20030097355 A1

L22: Entry 2 of 3   File: PGPB   May 22, 2003

```
PGPUB-DOCUMENT-NUMBER: 20030097355
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030097355 A1
```

TITLE: Method for using query templates in directory caches

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kapitskaia, Olga	Paris	NJ	FR	
Ng, Raymond	Vancouver		CA	
Srivastava, Divesh	Summit		US	

US-CL-CURRENT: 707/3; 707/10, 709/213

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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□ 3. Document ID: US 20030097355 A1

DERWENT-ACC-NO: 2003-597390
DERWENT-WEEK: 200356
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TITLE: Network directory cache managing method, involves storing number of user queries, creating query template, and retrieving and storing directory entries answering query template in cache

INVENTOR: KAPITSKAIA, O; NG, R ; SRIVASTAVA, D

PRIORITY-DATA: 2000US-199541P (April 25, 2000), 2001US-0841834 (April 25, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030097355 A1	May 22, 2003		010	G06F015/167

INT-CL (IPC): G06 F 7/00; G06 F 15/167; G06 F 17/30

ABSTRACTED-PUB-NO: US20030097355A
BASIC-ABSTRACT:

NOVELTY - The method involves receiving and storing a number of user queries and creating a query template that generalizes the user queries. Directory entries answering the query template are retrieved so that the directory entries are stored in the cache. The directory entries are retrieved after estimating the benefits of storing the directory entries in the cache.

USE - Used for managing network directory cache.

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DESCRIPTION OF DRAWING(S) - The drawing shows a flow chart of processing that is performed by the client in creating query templates.

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Clip Img | Ima |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Term	Documents
DIRECTORY	57747
DIRECTORIES	15448
DIRECTORYS	4
ENTRIES	100017
ENTRY	553764
ENTRYS	90
(18 AND (DIRECTORY NEAR ENTRIES)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3
(L18 AND (DIRECTORY NEAR	3